

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A planar antenna assembly mounted on a substrate, said antenna including a first monopole element, at least one grounded parasitic element located proximate the first monopole element, wherein the separation between the first monopole and the grounded parasitic element exhibits a conductive profile which varies the waveguide characteristics of the antenna assembly.
2. (Currently Amended) An assembly according to claim 1, wherein the conductive profile is provided by a stepped or angled profile on the or each grounded parasitic element which faces and extends away from the first monopole element.
3. (Original) An assembly according to claim 2, including a secondary grounded element located at an outer position relative to the or an associated grounded parasitic element.
4. (Previously Presented) An assembly according to claim 1, including two grounded parasitic elements located on opposite sides of the first monopole element.
5. (Currently Amended) An assembly according to claim 1, wherein the profile is provided by a first conductive island on the first monopole element.
6. (Previously Presented) An assembly according to claim 5, wherein the first conductive island is located to overlap the grounded parasitic element or elements.

7. (Currently Amended) An assembly according to claim 5, including a second conductive island on the first monopole element.

8. (Currently Amended) An assembly according to claim 7, wherein the second conductive island is located at an extremity of the first monopole element.

9. (Previously Presented) An assembly according to claim 1, wherein the first monopole element is tuned to operate in a frequency band of substantially 880 MHz to 2025 MHz.

10. (Previously Presented) An assembly according to claim 1, wherein the first monopole element is tuned to operate in the GSM and UMTS frequency bands.

11. (Previously Presented) An assembly according to claim 1, including a second monopole antenna element.

12. (Previously Presented) An assembly according to claim 11, wherein the second monopole element is located at a distance sufficient to avoid mutual coupling between the two monopole elements.

13. (Previously Presented) An assembly according to claim 11, wherein the second monopole element is tuned to operate substantially in a wireless network frequency band.

14. (Previously Presented) An assembly according to claim 11, wherein the second monopole element is tuned to operate substantially in a 2.4-2.5 GHz frequency band.

15. (Previously Presented) An assembly according to claim 11,

wherein the second monopole element is tuned to operate substantially in a Bluetooth or IEEE 802.11b band.

16. (Previously Presented) An assembly according to claim 1, wherein the antenna assembly is substantially flat.

17. (Currently Amended) An assembly according to claim 1, including a conductive element provided on the substrate and not in electrical contact with the grounded parasitic elements of the first monopole element.

18. (Previously Presented) An assembly according to claim 1, including switching means operable to switch between a plurality of sub-bands within the operating band of the first monopole element.

19. (Original) An assembly according to claim 18, wherein the switching means is operable to provide substantially continuous operation in the or a wireless networking band and selective operation in other wireless bands.

20. (Original) A planar stripline antenna comprising a primary linear monopole antenna element mounted with a proximal end located adjacent a planar ground plane; a double-sheath parasitic element array grounded to the ground plane, said parasitic elements arranged to enclose the proximal end of the monopole, wherein said parasitic elements are shaped so that the distance between the inner edge of the parasitic elements adjacent the proximal end of the monopole and the monopole varies in such a fashion that the bandwidth of the antenna is broadened.

21. (Currently Amended) An antenna as claimed in claim 20

further including a secondary monopole linear antenna spaced apart from the primary antenna so that coupling effects between the primary and the secondary antenna are minimised.

22. (Previously Presented) A computing or information device including an antenna assembly according to claim 1.